THYSANOPTERA TYPES IN COLLECTION OF ILLINOIS NATURAL HISTORY SURVEY[1]

Charles Gerdes[2]

ABSTRACT: More than 500 taxonomic types of Thysanoptera in the collection of the Illinois Natural History Survey, Urbana, have been listed by families, together with literature citations to the original descriptions.

DESCRIPTORS: Thysanoptera, thrips, types, taxonomic list.

The International Code of Zoological Nomenclature (ICZN) states that every institution should publish lists of types in its possession (Recommendation 72D). The following taxonomic list of thrips was compiled from microscope slides that were in the collection of the Illinois Natural History Survey and were labelled with one of the following terms: holotype, type, lectotype, cotype, paratype, allotype, or the equivalent in other languages. No other type designations of taxonomic importance were found on any slides. According to the ICZN the type terms that are necessary or recommended to designate species for taxonomic purposes are holotype, syntype, paratype, lectotype, paralectotype, and neotype (Articles 73-75). The term "type" on a label may be equivalent to "holotype" (ICZN: Article 73). The term "cotype" should be avoided since it may be used for either "syntype" or "paratype" (ICZN: Glossary). The term "allotype" is not in the ICZN but would fall under the definition of a paratype (Recommendation 73D and Glossary). Since changes have occurred in the valid scientific names of some species that are represented by these types, only the names that were given originally to these types were listed. The five families were listed alphabetically. After each scientific name the types in the collection were given, then the literature citation to the original description of the types. The last published list of types in the Illinois Natural History Survey collection was by Frison (1927), but his list included only ten species of thrips.

Aeolothripidae

Aeolothrips aureus, 1 ♀ paratype, Moulton (1931).
Aeolothrips brunneipictus, 1 ♀ paratype, Bailey (1951).
Aeolothrips distinctus, 2 ♀ paratypes, 1 ♂ paratype, Bhatti (1971).
Aeolothrips hesperus, 1 ♀ paratype, Bailey (1951).
Aeolothrips metacrucifer, 1 ♀ paratype, Bailey (1951).
Aeolothrips terrestris, 1 ♀ paratype, Bailey (1951).
Allelothrips ananthakrishnani, ♀ holotype, Stannard (1961).
Dactuliothrips xerophilus, 1 ♀ paratype, Bailey (1937).

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[2] Illinois Natural History Survey, Urbana, Illinois 61801

Melanthrips affluens, 4 ♀ paratypes, 1 ♂ paratype, Ananthakrishnan (1966).
Melanthrips arabs, 1 ♀ paratype, Priesner (1936a).
Melanthrips baileyi, 1 ♀ paratype, Ananthakrishnan (1965).

Heterothripidae

Heterothrips arisaemae, 1 ♀ paratype, Hood (1908).
Heterothrips bolivianus, ♀ holotype, ♂ allotype, 2 ♀ paratypes, Stannard (1972).
Heterothrips eversi, ♀ holotype, ♂ allotype, 6 ♀ paratypes, 1 ♂ paratype, Stannard (1958a).
Heterothrips julius, ♀ holotype, Stannard (1972).
Heterothrips prosopidis, 1 ♀ paratype, Crawford (1943b).
Heterothrips quercicola, 2 ♀ paratypes, Crawford (1942a).
Oligothrips oreios, 1 ♀ paratype, Moulton (1933).
Scutothrips incaensis, ♀ holotype, Stannard (1972).

Merothripidae

Merothrips plaumanni, 2 ♀ paratypes, Crawford (1942b).

Phlaeothripidae

Acanthothrips itzanus, ♂ holotype, ♀ allotype, Stannard (1957b).
Adelothrips acutus, ♀ holotype, 3 ♀ paratypes, Stannard (1956c).
Adelothrips bicolor, ♀ holotype, Stannard (1956c).
Adelothrips caribbeicus, ♀ holotype, 1 ♀ paratype, Stannard (1956c).
Adelothrips grandis, ♀ holotype, Stannard (1956c).
Adelothrips hammockensis, ♀ holotype, ♂ allotype, Stannard (1956c).
Adelothrips sporophagus, ♀ holotype, Stannard (1956c).
Adraneothrips apalus, ♀ holotype, ♂ allotype, 1 ♀ paratype, 2 ♂ paratypes, Stannard (1965).
Adraneothrips ephippium, ♀ holotype, Stannard (1956b).
Adraneothrips faustus, ♂ holotype, Stannard (1956b).
Adraneothrips hoffi, ♀ holotype, ♂ allotype, 15 ♀ paratypes, 7 ♂ paratypes, Stannard (1956b).
Adraneothrips vacuus, ♀ holotype, ♂ allotype, 5 ♀ paratypes, 4 ♂ paratypes, Stannard (1956b).
Agrothrips tantillus, ♀ holotype, ♂ allotype, 8 ♀ paratypes, 2 ♂ paratypes, Stannard (1958b).
Allidothrips tricolor, 1 ♂ paratype, zur Strassen (1968).
Allothrips acaciae, 1 ♀ paratype, Faure (1945).
Allothrips megacephalus, 1 ♀ paratype, Hood (1908).
Allothrips megacephalus stannardi, 1 ♀ paratype, 1 ♂ paratype, Mound (1972).
Allothrips watsoni acuta, ♀ holotype, ♂ allotype, 30 ♀ paratypes, Stannard (1955b).
Allothrips watsoni biminiana, ♀ holotype, 2 ♀ paratypes, Stannard (1955b).
Amphibolothrips brevitubus, ♀ holotype, ♂ allotype, 2 ♀ paratypes, Stannard (1957b).
Amphibolothrips caenosa, ♀ holotype, Stannard (1952b).
Ananthakrishnaniella tarai, ♀ holotype, Stannard (1970).
Antillothrips graminatus, ♀ holotype, 3 ♀ paratypes, Stannard (1957b).
Apterygothrips carolinae, 2 ♀ paratypes, 1 ♂ paratype, Faure (1959).
Apterygothrips longiceps, 3 ♀ paratypes, zur Strassen (1966a).
Atractothrips mockfordi, ♀ holotype, Stannard (1974).
Baenothrips chilensis, ♀ holotype, ♂ allotype, 3 ♀ paratypes, Stannard (1970).
Bolothrips lativerticis, 1 larval paratype, Post (1961).

Bolothrips similis, 1 ♀ paratype, Hartwig (1948).
Bolothrips subulatus, 1 ♀ paratype, Hartwig (1948).
Bolothrips varius, 2 ♀ paratypes, Hartwig (1948).
Cartomothrips browni, ♀ holotype, 2 ♀ paratypes, Stannard (1962).
Cartomothrips manukae, 6 ♀ paratypes, Stannard (1962).
Cercothrips modestus, 1 ♀ paratype, Priesner (1937a).
Chamaeothrips decoratus, ♀ holotype, Stannard (1955c).
Crotonothrips gallarum, 1 ♀ paratype, 1 ♂ paratype, Ananthakrishnan (1967).
Diphyothrips morainensis, ♀ holotype, 1 ♀ paratype, Stannard (1963).
Elatea stannardi, 2 ♀ paratypes, 1 ♂ paratype, Faure (1957).
Erkosothrips interior, ♀ holotype, ♂ allotype, 12 ♀ paratypes, 6 ♂ paratypes, Stannard (1955c).
Eschatothrips whitcombi, ♂ holotype, Stannard (1955c).
Eurythrips constrictus, ♀ holotype, Stannard (1958c).
Eurythrips reticulotubus, ♀ holotype, ♂ allotype, 2 ♀ paratypes, 2 ♂ paratypes, Stannard (1953b).
Eurythrips setiger, ♀ holotype, 6 ♀ paratypes, Stannard (1958c).
Gnophothrips piniphilus, 2 ♀ paratypes, 1 ♂ paratype, Crawford (1938a).
Gynaikothrips insulsus, 1 ♂ paratype, Priesner (1939).
Gynaikothrips priesneri, 1 ♀ paratype, 1 ♂ paratype, Faure (1964).
Gynaikothrips victor, ♀ and ♂ paratypes on one slide, Priesner (1939).
Haplothrips atriplicis, 1 ♀ paratype, Priesner (1936b).
Haplothrips jasionis, 1 ♀ paratype, 1 ♂ paratype, Priesner (1950).
Haplothrips omani, 1 ♀ paratype, Crawford (1947b).
Haplothrips sonorensis, ♀ holotype, Stannard (1956b).
Haplothrips subterraneus, 2 ♀ paratypes, Crawford (1938a).
Haplothrips sventenii, 1 ♀ paratype, 1 ♂ paratype, zur Strassen (1966b).
Hoplandrothrips bredoi, 1 ♀ paratype, Priesner (1937b).
Hoplandrothrips irretius, 1 ♀ paratype, 1 ♂ paratype, Kono (1964).
Hoplandrothrips lateralis, ♀ holotype, ♂ allotype, 5 ♀ paratypes, Stannard (1963).
Hoplothrips fieldsi, 1 ♀ paratype, 2 ♂ paratypes, Crawford (1939b).
Hoplothrips myceticola, 1 ♀ paratype, Crawford (1939b).
Hoplothrips pallicornis, 1 ♀ paratype, Crawford (1939a).
Idolothrips flavipes, 1 ♂ paratype, Hood (1908).
Illinothrips rossi, ♀ holotype, ♂ allotype, 8 ♀ paratypes, 3 ♂ paratypes, Stannard (1954b).
Lissothrips muscorum, 1 ♀ paratype, Hood (1908).
Machadonia crassisetis, 2 ♀ paratypes, Bournier (1965).
Megalothrips schuhi, 3 ♀ paratypes, Crawford (1947a).
Megeugynothrips efflatouni, 1 ♀ paratype, 1 ♂ paratype, Priesner (1929).
Neoheegeria ballotae, 2 ♀ paratypes, Priesner (1951).
Neothrips corticis, 1 ♂ paratype, Hood (1908).
Nesothrips schaferi, ♀ holotype, ♂ allotype, Thomasson and Post (1966).
Orthothrips bilineatus, ♀ holotype, ♂ allotype, 1 ♀ paratype, 1 ♂ paratype, Stannard (1955c).
Orthothrips boneti, ♀ holotype, ♂ allotype, 1 ♂ paratype, Stannard (1955c).
Orthothrips dubius, ♀ holotype, Stannard (1955c).
Phaeothrips mimicus, 1 ♀ paratype, Ananthakrishnan (1969).
Phthirothrips pediculus, 1 ♀ paratype, Priesner (1933).
Plectrothrips antennatus, 1 ♂ paratype, Hood (1908).
Plectrothrips bruneri, 1 ♀ paratype, Watson (1933).
Pnigmothrips medanensis, 2 ♀ paratypes, Priesner (1953).
Preeriella angolensis, 1 ♀ paratype, 1 ♂ paratype, Bournier (1965).
Pueblothrips minuta, ♂ holotype, ♀ allotype, 4 ♂ paratypes, Stannard (1950).

Saucrothrips scitulus, 1 ♀ paratype, Ananthakrishnan (1967).
Sericothrips desmodianus, ♀ holotype, Stannard (1968).
Talitha cincta, 1 ♀ paratype, 1 ♂ paratype, Faure (1958a).
Terthrothrips magnicauda, 1 ♀ paratype, Stannard (1955a).
Thorybothrips graminis, 1 ♂ cotype, Priesner (1924).
Transithrips murphyi, ♀ holotype, Stannard (1970).
Trichothrips americanus, 1 ♀ paratype, 1 ♂ paratype, Hood (1908).
Trichothrips angusticeps, 1 ♀ paratype, Hood (1908).
Trichothrips buffae, 1 ♀ paratype, Hood (1908).
Trichothrips longitubus, 1 ♀ paratype, Hood (1908).
Trisclerothrips hurricaneus, ♀ holotype, Stannard (1953b).
Tropothrips nigripes, ♀ holotype, ♂ allotype, 1 ♀ paratype, Stannard (1954a).
Tropothrips richardsi, ♀ holotype, 1 ♀ paratype, Stannard (1954a).

Thripidae

Anaphothrips figuratus, 1 ♀ paratype, 1 ♂ paratype, zur Strassen (1968).
Anaphothrips mohelensis, 6 ♀ paratypes, Pelikan (1949).
Anaphothrips sandersoni, ♀ holotype, 41 ♀ paratypes, Stannard (1957a).
Apollothrips bhattii, ♀ holotype, ♂ allotype, 1 ♀ paratype, 1 ♂ paratype, Wilson (1972).
Arachisothrips boneti, ♂ holotype, Stannard (1952a).
Arachisothrips millsi, ♀ holotype, Stannard (1952a).
Ascirtothrips varius, 5 ♀ paratypes, 1 ♂ paratype, Bhatti (1967).
Asprothrips raui, 1 ♀ paratype, Crawford (1938b).
Astrothrips parvilimbus, ♀ holotype, Stannard and Mitri (1962).
Astrothrips stannardi, 12 ♀ paratypes, 4 ♂ paratypes, Bhatti (1967).
Bregmatothrips sonorensis, ♀ holotype, ♂ allotype, 2 ♀ paratypes, 2 ♂ paratypes, Stannard (1956a).
Chilothrips occidentalis, ♀ holotype, ♂ allotype, 1 ♀ paratype, Stannard (1973).
Chilothrips rotrameli, ♀ holotype, Stannard (1973).
Chirothrips alexanderae, ♀ holotype, 1 ♀ paratype, Stannard (1959).
Chirothrips medius, 1 ♀ paratype, zur Strassen (1965).
Chirothrips praeocularis, 1 ♀ paratype, Andre (1941).
Chirothrips tuttlei, 1 ♀ paratype, 1 ♂ paratype, zur Strassen (1967).
Chloethrips faurei, 1 ♀ paratype, 1 ♂ paratype, Bhatti (1962).
Collembolothrips atlanticus, 2 ♀ paratypes, zur Strassen (1965).
Dendrothripiella stannardi, 1 ♀ paratype, Ananthakrishnan (1957).
Diarthrothrips lantana, 4 ♀ paratypes, 1 ♂ paratype, Bhatti (1967).
Frankliniella hemerocallis, 1 ♀ paratype, 1 ♂ paratype, Crawford (1948b).
Halmathrips beckeri, ♀ holotype, 3 ♀ paratypes, Stannard (1953a).
Halmathrips debilis, ♀ holotype, Stannard (1953a).
Halmathrips tricinctus, ♀ holotype, 2 ♀ paratypes, Stannard (1953a).
Helionothrips minutus, ♂ holotype, Wilson (1975).
Heliothrips apicalis, 1 ♀ type, 1 ♀ paratype, Bondar (1931).
Homothrips geyeri, 1 ♂ paratype, Faure (1942).
Hoodothrips neivai, ♀ lectotype, Bondar (1931).
Isochaetothrips gardeniae, 2 ♀ paratypes, Crawford (1945).
Isoneurothrips obscuratus, 1 ♀ paratype, Crawford (1941a).
Kurtomathrips unicolor, 1 ♀ paratype, Bailey (1961).
Mesostenothrips kraussi, 1 ♀ paratype, Stannard and Mitri (1962).
Othinanaphothrips spilleri, 1 ♀ paratype, Crawford (1943c).
Oxythrips illitus, 1 ♀ paratype, zur Strassen (1968).
Oxythrips nickelae, 1 ♀ paratype, zur Strassen (1968).

Plesiothrips andropogoni, ♀ holotype, 14 ♀ paratypes, Watts (1934).
Plesiothrips andropogoni watsoni, 4 ♀ paratypes, Watts (1934).
Plesiothrips ayarsi, ♀ holotype, 12 ♀ paratypes, Stannard (1957a).
Prosopothrips chilensis, ♀ holotype, 5 ♀ paratypes, Wilson (1975).
Psectrothrips beckeri, ♀ holotype, ♂ allotype, 5 ♀ paratypes, 10 ♂ paratypes, Stannard (1951a).
Pseudothrips beckhami, 2 ♀ paratypes, 1 ♂ paratype, Beshear and Howell (1976).
Scirtothrips aurantii, 2 ♀ paratypes, 1 ♂ paratype, Faure (1929).
Scirtothrips fulleri, 2 ♀ paratypes, Faure (1929).
Scirtothrips kenyensis, 1 ♀ paratype, Mound (1968).
Sericothrips andrei, 1 ♀ paratype, Crawford (1943a).
Sericothrips formosus, 2 ♀ paratypes, Faure (1958b).
Sericothrips lepidus, 1 ♀ paratype, 1 ♂ paratype, Faure (1958b).
Sericothrips minutus, 2 ♀ paratypes, Bhatti (1967).
Sericothrips pulchellus, 1 ♀ paratype, Hood (1908).
Sericothrips raniae, 1 ♀ paratype, 1 ♂ paratype, Bhatti (1967).
Sericothrips sidae, 1 ♀ paratype, Crawford (1944).
Sericothrips signifer, 1 ♀ paratype, Priesner (1932).
Sericothrips smithi, ♀ holotype, 4 ♀ paratypes, Stannard (1951b).
Sericothrips walteri, 1 ♀ paratype, Crawford (1938a).
Taeniothrips betulae, 1 ♀ paratype, Crawford (1939b).
Taeniothrips kraussi, 1 ♀ paratype, Crawford (1948a).
Taeniothrips walteri, 2 ♀ paratypes, Crawford (1941c).
Thrips asparagi, 2 ♀ paratypes, zur Strassen (1968).
Thrips brunneus, 2 ♀ paratypes, Ananthakrishnan and Jagadish (1968).
Thrips kodaikanalensis, 2 ♀ paratypes, Ananthakrishnan and Jagadish (1966).
Thrips latis, 1 ♀ paratype, Bhatti (1967).
Thrips sylvanus, ♀ holotype, ♂ allotype, 5 ♀ paratypes, 1 ♂ paratype, Stannard (1957a).
Thrips walteri, 1 ♀ paratype, Crawford (1938a).
Toxothrips ricinus, 3 ♀ paratypes, Bhatti (1967).
Uzelothrips scabrosus, 1 ♂ paratype, Hood (1952).
Zonothrips osmundae, 1 ♀ paratype, 1 ♂ paratype, Crawford (1941b).
Zonothrips smutsi, 2 ♀ paratypes, Faure (1957).

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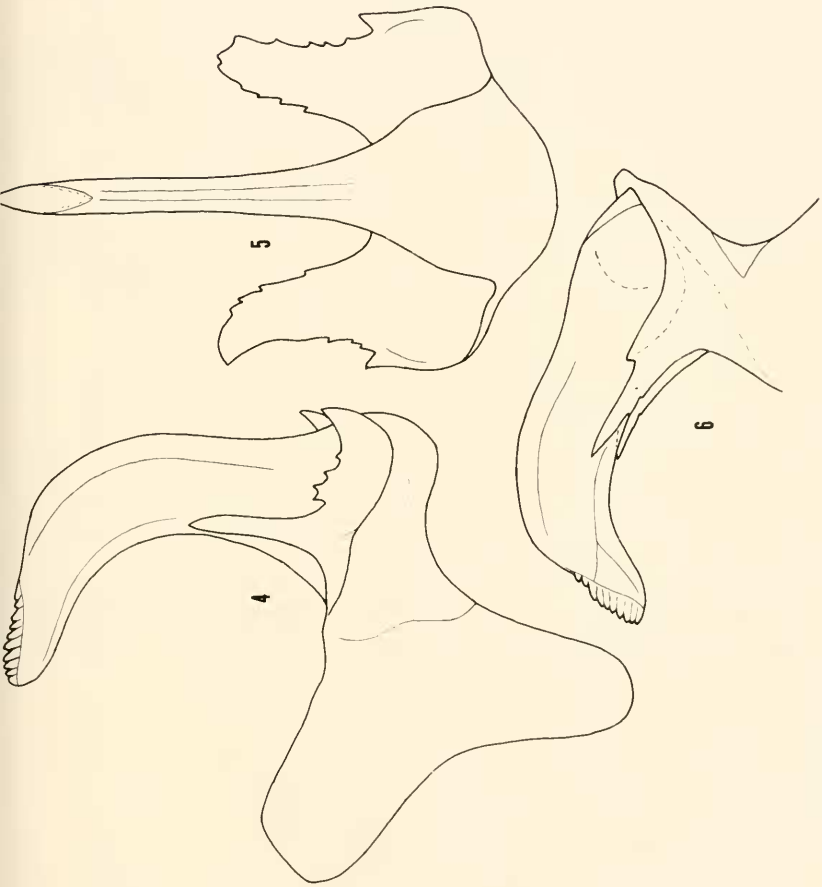
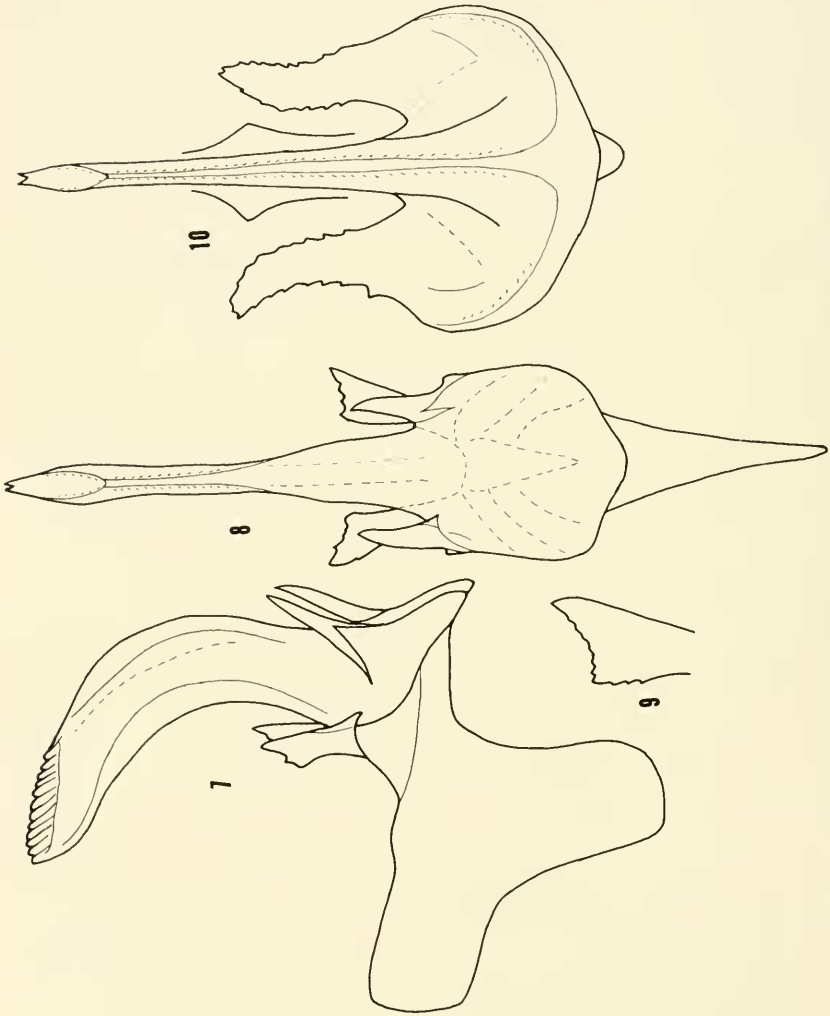


Figs. 4-6. *Achopterus plenus* Beam. & Laws.: 4 aedeagus in lateral, 5 in ventral aspect; 6 same (of another ex) from side.



Figs. 7-10. *Acinopterus igualanus* sp.n.: 7 aedeagus in lateral, 8 in ventral aspect; 9

RECORDS OF ECTOPARASITES FROM BRAZILIAN MAMMALS[1,2]

John O. Whitaker, Jr., Russell E. Mumford[3]

ABSTRACT: 31 species of ectoparasites were collected from Brazilian mammal hosts. Of these, 19 were taken from bats, 8 from rodents, 2 from horses and 2 from tapir.

DESCRIPTORS: Mammalian ectoparasites, Brazil, Diptera (Streblidae), Hemiptera (Polyctenidae), Mallophaga, Acarina.

There are few data on ectoparasites of mammals of Brazil. The present paper presents information on ectoparasites collected from mammals, particularly bats, in Brazil by Mumford. Unless otherwise stated, specimens were obtained at or near Vicosa, Minas Gerais, during 1973.

Materials and Methods

Parasites were taken mainly from wild mammals trapped or caught in mist nets; specimens were also obtained from domestic horses and a confined tapir. Parasites were preserved in ethyl alcohol and identified by Whitaker. Help in identifications was freely given for several taxa, as follows: Laelapidae and ticks, Nixon A. Wilson (University of Northern Iowa); Streblidae, Rupert L. Wenzel (Field Museum of Natural History); Nycteribiidae, B.V. Peterson (Biosystematics Research Institute, Canada); lice, K.C. Emerson (Arlington, Virginia); macronyssid mites, JoAnn M. Tenorio (Bernice P. Bishop Museum, Hawaii).

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[3]Department of Life Sciences, Indiana State University, Terre Haute, Indiana, 47809, and Department of Forestry and Natural Resources, Purdue University, Lafayette, Indiana, 47907.